INDEX OF AUTHORS' NAMES.

TRANSACTIONS. 1919.

A.

Abram, *Harold Helling.* See *Thomas Martin* **Lowry.**

Allmand, *Arthur John,* and *Wilfrid Gustav* **Polack,** the free energy of dilution of aqueous sodium chloride solutions, 1020.

Applebey, *Malcolm Percival,* sodium hypochlorite, 1106.

Armstrong, *Edward Frankland,* and *Thomas Percy* **Hilditch,** conversion of the simple sugars into their enolic and ethylene oxide forms, 1410.

Aston, *Francis William,* a simple form of apparatus for estimating the oxygen content of air from the upper atmosphere, 472.

B.

Barnes, *James Hector,* obituary notice of, 409.

Barratt, *Sydney,* and *Alan Francis* **Titley,** the catalytic reduction of hydrogen cyanide, 902.

Batey, *John Percy,* obituary notice of, 408.

Baxter, *Robert Reginald,* and *Robert George* **Fargher,** 1:3-benzodiazole-arsinic acids and their reduction products, 1372.

Bennett, *George Macdonald,* the nitration of diphenylethylenediamine, 576.

Blount, *Bertram,* and *James Harry* **Sequeira,** "blue john" and other forms of fluorite, 705.

Bousfield, *William Robert,* mixtures of nitrogen peroxide and nitric acid, 45.

Boyd, *David Runciman,* and (*Miss*) *Doris Feltham* **Thomas,** the velocities of combination of sodium derivatives of phenols with olefine oxides. Part II., 1239.

Boyle (*Miss*) *Mary,* the conductivities of iodoanilinesulphonic acids, 1505.

Briggs, *Samuel Henry Clifford,* chromatocobaltiammines, 67.
the theory of duplex affinity, 278.

Burrows, *George Joseph,* the rate of hydrolysis of methyl acetate by hydrochloric acid in water-acetone mixtures, 1230.

Burrows, *George Joseph,* and *Eustace Ebenezer* **Turner,** the constitution of the nitroprussides. Part I. Conductivity and cryoscopic measurements, 1429.

C.

Carpenter, *Charles William.* See *Hubert Frank* **Coward.**

Challenger, *Frederick.* See *Percy Faraday* **Frankland.**

Chapman, *David Leonard,* and *William Job* **Jenkins,** the interaction of acetylene and mercuric chloride, 847.

Chapman, *David Leonard,* and *John Reginald Harvey* **Whiston,** the interaction of chlorine and hydrogen; the influence of mass, 1264.

Chatterjee, *Nihar Ranjan.* See *Rasik Lal* **Datta.**

Clewer, *Hubert William Bentley.* See *John Augustus* **Goodson.**

Cofman, *Victor,* the active substance in the iodination of phenols, 1040.

Coward, *Hubert Frank, Charles William* **Carpenter,** and *William* **Payman,** the dilution limits of inflammability of gaseous mixtures. Part III. The lower limits of some mixed inflammable gases with air. Part IV. The upper limits of some gases, singly and mixed, in air, 27.

Coward, *Hubert Frank,* and *Stanley Pierce* **Wilson,** the equilibrium between carbon, hydrogen and methane, 1380.

D.

Das, *Ananda Kisore,* and *Brojendra Nath* **Ghosh,** condensation of deoxybenzoin and aldehydes, 817.

Das, *Radha Kishen*. See (*Sir*) *Prafulla Chandra* **Rây**.

Datta, *Rasik Lal*, and *Nihar Ranjan* **Chatterjee**, the temperature of explosion for endothermic substances, 1006.

De, *Rajendralal*, polar and non-polar valency, 127.

Dean, *George*, trustworthiness of the balance over long periods of time, 826.

Denham, *Henry George*, the sub-acetate and sub-sulphate of lead, 109.

the preparation of cadmium suboxide, 556.

Denham, *Henry George*. See also *Stewart Byron* **Watkins**.

Dey, *Biman Bihari*, and *Mahendra Nath* **Goswami**, ψ-1:8-*iso*naphthoxazones, 531.

Dick, *Charles William*, obituary notice of, 408.

Dick, *James Scott*. See *James Colquhoun* **Irvine**.

Donnan, *Frederick George*, and *William Edward* **Garner**, equilibria across a copper ferrocyanide and an amyl alcohol membrane, 1313.

Durrant, *Reginald Graham*, the interaction of stannous and arsenious chlorides, 134.

E.

Early, *Reginald George*, and *Thomas Martin* **Lowry**, the properties of ammonium nitrate. Part I. The freezing point and transition-temperatures, 1387.

Evans, *Frederick Page*. See *Gilbert Thomas* **Morgan**.

Evens, *Eric Doddrell*. See *Gilbert Thomas* **Morgan**.

Everest, *Arthur Ernest*, [in part with *Harold* **Rogerson**], the preparation of diacetonamine, 588.

F.

Fargher, *Robert George*, substituted phenylarsinic acids and their reduction products, and the estimation of arsenic in such compounds, 982.

Fargher, *Robert George*, and *Frank Lee* **Pyman**, nitro-, arylazo-, and aminoglyoxalines, 217.

the abnormal behaviour of glyoxalinecarboxylic esters and anilides towards diazonium salts, 1015.

Fargher, *Robert George*. See also *Robert Reginald* **Baxter**.

Fawsitt, *Charles Edward*, the freezing point of solutions, with special reference to solutions containing several solutes, 790.

the use of freezing-point determinations in quantitative analysis, 801.

Forster, *Martin Onslow*, and *Hans* **Spinner**, studies in the camphane series. Part XXXVII. Aryl derivatives of imino- and amino-camphor, 889.

Foster, *George Carey*, obituary notice of, 412.

Fox, *Francis William*. See *John Addyman* **Gardner**.

Frankland, *Percy Faraday*, *Frederick* **Challenger**, and *Noel Albert* **Nicholls**, the preparation of monomethylamine from chloropicrin, 159.

the preparation of monomethylaniline, 198.

Frankland, *Percy Faraday*, and *Frederic Horace* **Garner**, the rotation dispersion of butyl, heptyl, and octyl tartrates, 636.

Freak, *Gilbert Arthur*, the effect of dilution in electro-titrimetric analyses, 55.

G.

Gardner, *John Addyman*, and *Francis William* **Fox**, chloropicrin. Part I., 1188.

Garner, *Frederic Horace*. See *Percy Faraday* **Frankland**.

Garner, *William Edward*. See *Frederick George* **Donnan**.

Ghosh, *Brojendra Nath*. See *Ananda Kisore* **Das**.

Ghosh, *Praphulla Chandra*, curcumin, 292.

dyes derived from quinolinic acid, 1102.

Goodson, *John Augustus*, and *Hubert William Bentley* **Clewer**, examination of the bark of *Croton gubouga*; isolation of 4-hydroxyhygric acid, 923.

Goswami, *Mahendra Nath*. See *Biman Bihari* **Dey**.

Gough, *William Henry*, and *Jocelyn Field* **Thorpe**, asymmetric replacement in the meta-series. Part I., 1155.

Guha, *Prafulla Chandra*. See (*Sir*) *Prafulla Chandra* **Rây**.

H.

Harris, *Joseph Walter*, the optically active neomethylhydrindamines, 61.

Harrison, *Edward Frank*, obituary notice of, 562.
Haworth, *Walter Norman*, and (*Miss*) *Grace Cumming* **Leitch**, the constitution of the disaccharides. Part III. Maltose, 809.
Heberlein, *Christian*. See *Robert Ludwig* **Mond**.
Hepworth, *Harry*, the absorption spectra of the nitric esters of glycerol, 840.
the action of Grignard reagents on the esters of certain dicarboxylic acids, 1203.
Hewitt, *John Theodore*, and *William Jacob* **Jones**, the estimation of the methoxyl group, 193.
Hickinbottom, *Wilfred John*. See *Joseph* **Reilly**.
Higson, *Geoffrey Isherwood*. See *Roland Edgar* **Slade**.
Hilditch, *Thomas Percy*. See *Edward Frankland* **Armstrong**.
Hinshelwood, *Cyril Norman*, the oxidation of phenol derivatives, 1180.
Hughes, *William*, the reaction between sodium chloride solution and metallic magnesium, 272.

I.

Ingold, *Christopher Kelk*, and *Jocelyn Field* **Thorpe**, experiments on the elimination of the carbethoxyl group from tautomeric systems. Part I. Derivatives of indene, 143.
the formation and stability of *spiro*-compounds. Part II. Bridged-*spiro*-compounds derived from *cyclo*hexane, 320.
Irvine, *James Colquhoun*, and *James Scott* **Dick**, the constitution of maltose; a new example of degradation in the sugar group, 593.

J.

James, *Thomas Campbell*. See *Eric* **Walker**.
Jeans, *James Hopwood*, the quantum theory and new theories of atomic structure, 865.
Jenkins, *William Job*. See *David Leonard* **Chapman**.
Jephcott, *Harry*, the physical constants of nicotine. Part I. Specific rotatory power of nicotine in aqueous solution, 104.
Jones, *David Charles*. See *Kennedy Joseph Previté* **Orton**.
Jones, *David Trevor*, glyceryl methyl ether dinitrate (α-methylin dinitrate), 76.
Jones, *William Jacob*. See *John Theodore* **Hewitt**.

K.

Kam, *James*. See *James William* **McBain**.
Kemp, *William Joel*, obituary notice of, 427.
King, *Albert Theodore*, the production of methyl ethyl ketone from *n*-butyl alcohol, 1404.
King, *Harold*, the resolution of hyoscine and its components, tropic acid and oscine, 476.
the stereochemistry of hyoscine, 974.
Knox, *Joseph*, and (*Miss*) *Marion Brock* **Richards**, the basic properties of oxygen in organic acids and phenols and the quadrivalency of oxygen, 508.
Knox, *Joseph*, and (*Miss*) *Helen Reid* **Will**, the basic properties of phenanthraquinone, 850.
the solubility of silver acetate in acetic acid and of silver propionate in propionic acid, 853.
Kon, *George Armand Robert*, and *Jocelyn Field* **Thorpe**. I. The formation and reactions of imino-compounds. Part XIX. The chemistry of the cyanoacetamide and Guareschi condensations, 686.
Krizewsky, *Jacob*, and *Eustace Ebenezer* **Turner**, formation of diphenyl by the action of cupric salts on organometallic compounds of magnesium, 559.

L.

Laing, (*Miss*) *Mary Evelyn*. See *James William* **McBain**.
Lapworth, *Arthur*, and *Frank Albert* **Royle**, capsaicin. Part I., 1109.
Leitch, (*Miss*) *Grace Cumming*. See *Walter Norman* **Haworth**.
Lewis, *Samuel Judd*, a new sector spectrophotometer, 312.
Lewis, *William Cudmore McCullagh*, studies in catalysis. Part X. The applicability of the radiation hypothesis to heterogeneous reactions, 182.
studies in catalysis. Part XI. The Le Chatelier-Braun principle from the point of view of the radiation hypothesis, 710.
studies in catalysis. Part XII. Catalytic criteria and the radiation hypothesis, 1360.

Lowry, *Thomas Martin*, and *Harold Helling* **Abram**, the rotatory dispersive power of organic compounds. Part IX. Simple rotatory dispersion in the terpene series, 300.

Lowry, *Thomas Martin*. See also *Reginald George* **Early**.

Lumsden, *John Scott*, criteria of the degree of purity of commercial toluene, 1366.

Lupton, *Sydney*, obituary notice of, 430.

M.

McArthur, *Donald Neil*, and *Alfred Walter* **Stewart**, a new photographic phenomenon, 973.

McBain, *James William*, and *James* **Kam**, the effect of salts on the vapour pressure and degree of dissociation of acetic acid in solution; an experimental refutation of the hypothesis that neutral salts increase the dissociation constants of weak acids and bases, 1332.

McBain, *James William*, (*Miss*) *Mary Evelyn* **Laing**, and *Alan Francis* **Titley**, colloidal electrolytes: soap solutions as a type, 1279.

McBain, *James William*, and (*Miss*) *Millicent* **Taylor**, the degree of hydration of the particles which form the structural basis of soap curd, determined in experiments on sorption and salting out, 1300.

McKenzie, *Alexander*, and *John Kerfoot* **Wood**, the isomeric tropic acids, 828.

McKenzie, *Alexander*, and *Henry* **Wren**, catalytic racemisation of ethyl *l*-mandelate, 602.

Manning, *Rodger James*, and *Maximilian* **Nierenstein**, the tannin of the Canadian hemlock (*Tsuga canadensis*, Carr.), 662.

Martineau, *George*, obituary notice of, 434.

Mason, *Walter*, and *Richard Vernon* **Wheeler**, the propagation of flame in mixtures of acetylene and air, 578.

Maxted, *Edward Bradford*, the synthesis of ammonia at high temperatures. Part III., 113.

the influence of hydrogen sulphide on the occlusion of hydrogen by palladium, 1050.

Mazumder, *Jatindra Kumar*. See *Bawa Kartar* **Singh**.

Mitter, *Prafulla Chandra*, and *Jnanendra Nath* **Sen**, action of phenylhydrazine on phthalaldehydic and phthalonic acids: phenyl-hydrazo- and azo-phthalide, 1145.

Mond, *Robert Ludwig*, and *Christian* **Heberlein**, the chemistry of Burgundy mixtures, 908.

Morgan, *Gilbert Thomas*, and *Frederick Page* **Evans**, β-naphthylmethylamine, 1140.

Morgan, *Gilbert Thomas*, and *Eric Doddrell* **Evens**, the constitution of internal diazo-oxides (diazophenols). Part II., 1126.

Morgan, *John David*, the ignition of explosive gases by electric sparks, 94.

Mukherjee, *Jñanendra Nath*, and *Nagendra Nath* **Sen**, coagulation of metal sulphide hydrosols. Part I. Influence of distance between the particles of a sol on its stability; anomalous protective action of dissolved hydrogen sulphide, 461.

N.

Nicholls, *Noel Albert*. See *Percy Faraday* **Frankland**.

Nicholson, *John William*, emission spectra and atomic structure, 855.

Nierenstein, *Maximilian*, the tannin of the knopper gall, 1174.

the colouring matter of the red pea gall, 1328.

Nierenstein, *Maximilian*. See also *Rodger James* **Manning**.

Norman, *George Marshall*, the formation of diazoamino-compounds from β-naphthylamine, 673.

O.

O'Connor, *Edmund Arthur*. See *Albert Cherbury David* **Rivett**.

Orton, *Kennedy Joseph Previté*, and *David Charles* **Jones**, the critical solution temperature of a ternary mixture as a criterion of purity of toluene, 1055.

the temperature of critical solution of a ternary mixture as a criterion of purity of *n*-butyl alcohol; the preparation of pure *n*-butyl alcohol, 1194.

P.

Payman, *William*, the propagation of flame in complex gaseous mixtures. Part I. Limit mixtures and the uniform movement of flame in such mixtures, 1436.

the propagation of flame in complex gaseous mixtures. Part II. The uniform movement of flame in mixtures of air with paraffin hydrocarbons, 1446.

Payman, *William*, the propagation of flame in complex gaseous mixtures. Part III. The uniform movement of flame in mixtures of air with mixtures of methane, hydrogen and carbon monoxide, and with industrial inflammable gases, 1454.

Payman, *William*, and *Richard Vernon* **Wheeler**, the propagation of flame through tubes of small diameter. Part II., 36.

Payman, *William*. See also *Hubert Frank* **Coward**.

Pedler, (*Sir*) *Alexander*, obituary notice of, 436.

Perkin, *William Henry*, *jun.*, cryptopine. Part II., 713.

Perkin, *William Henry*, *jun.*, and *Robert* **Robinson**, harmine and harmaline. Parts III. and IV., 933, 967.

Polack, *Wilfrid Gustav*. See *Arthur John* **Allmand**.

Pope, (*Sir*) *William Jackson*, presidential address, 397.

Price, *Tudor Williams*, the vapour pressures and densities of mixtures of acetone and methyl ethyl ketone, 1116.

the decomposition of carbamide in the presence of nitric acid, 1354.

Price, *Tudor Williams*. See also *Albert Greville* **White**.

Prideaux, *Edmund Brydges Rudhall*, the effect of sea-salt on the pressure of carbon dioxide and alkalinity of natural waters, 1223.

Pyman, *Frank Lee*, the alkaloids of *Holarrhena congolensis*, Stapf., 163.

meta-substituted aromatic selenium compounds, 166.

Pyman, *Frank Lee*. See also *Robert George* **Fargher**.

R.

Rakshit, *Jitendra Nath*, porphyroxine, 455.

Rây, (*Sir*) *Prafulla Chandra*, mercury mercaptide nitrites and their reaction with the alkyl iodides. Part VI. Chain compounds of sulphur, 548.

interaction of mercuric and cupric chlorides respectively and the mercaptans and potential mercaptans, 871.

Rây, (*Sir*) *Prafulla Chandra*, and *Prafulla Chandra* **Guha**, mercury mercaptide nitrites and their reaction with the alkyl iodides. Parts IV., V. and VII. Chain compounds of sulphur, 261, 541, 1148.

Rây, (*Sir*) *Prafulla Chandra*, *Prafulla Chandra* **Guha**, and *Radha Kishen* **Das**, reaction of the potassium salts of 2-thiol-5-thio-4-phenyl-4:5-dihydro-1:3:4-thiodiazole and 2:5-dithiol-1:3:4-thiodiazole with halogenated organic compounds, 1308.

Rây, (*Sir*) *Prafulla Chandra*, and *Prafulla Kumar* **Sen**, mercuric sulphoxychloride, 552.

Reilly, *Joseph*, and *Wilfred John* **Hickinbottom**, the *n*-butylarylamines. Part III. Constitution of the nitro-derivatives of *n*-butyl-*p*-toluidine, 175.

Remington, *Joseph Price*, obituary notice of, 438.

Report of the Council, 384.

Report of the International Committee on Atomic Weights, 879.

Richards, (*Miss*) *Marion Brock*. See *Joseph* **Knox**.

Rideal, *Eric Keightley*, the selective combustion of carbon monoxide in hydrogen, 993.

Rivett, *Albert Cherbury David*, and *Edmund Arthur* **O'Connor**, some ternary systems containing alkali oxalates and water, 1346.

Robertson, *Philip Wilfred*, the melting points of the substituted amides of the normal fatty acids, 1210.

Robinson, *Robert*. See *William Henry* **Perkin**, *jun.*

Rogerson, *Harold*. See *Arthur Ernest* **Everest**.

Royle, *Frank Albert*. See *Arthur* **Lapworth**.

S.

Schloesing, *Jean Jacques Théophile*, obituary notice of, 440.

Sen, *Jnanendra Nath*. See *Prafulla Chandra* **Mitter**.

Sen, *Nagendra Nath*. See *Jñanendra Nath* **Mukherjee**.

Sen, *Prafulla Kumar*. See (*Sir*) *Prafulla Chandra* **Rây**.

Senier, *Alfred*, obituary notice of, 447.

Sequeira, *James Harry*. See *Bertram* **Blount**.

Singh, *Bawa Kartar*, and *Jatindra Kumar* **Mazumder**, studies on the dependence of optical rotatory power on chemical constitution. Part I. Position-isomerism and optical activity of naphthyliminocamphors and derivatives of phenyliminocamphor, 566.

condensation of deoxybenzoin with aromatic aldehydes, 821.

Slade, *Roland Edgar*, and *Geoffrey Isherwood* **Higson**, equilibria in the reduction of oxides by carbon, 205.
the dissociation pressures of some nitrides, 215.
Soddy, *Frederick*, the conception of the chemical element as enlarged by the study of radioactive change, 1.
Spinner, *Hans*. See *Martin Onslow* **Forster**.
Stewart, *Alfred Walter*. See *Donald Neil* **McArthur**.

T.

Taylor, *Charles Somers*, the presence of aconitic acid in sugar-cane juice and a new reaction for the detection of the acid, 886.
Taylor, (*Miss*) *Millicent*. See *James William* **McBain**.
Tcherniac, *Joseph*, thiocyanoacetone and its derivatives and isomerides, 1071.
an automatic extraction apparatus, 1090.
Thomas, (*Miss*) *Doris Feltham*. See *David Runciman* **Boyd**.
Thorpe, *Jocelyn Field*, the chemistry of the glutaconic acids. Part XI. The occurrence of 1:3-addition to the normal form, 679.
Thorpe, *Jocelyn Field*. See also *William Henry* **Gough**, *Christopher Kelk* **Ingold**, and *George Armand Robert* **Kon**.
Tideswell, *Frederick Vincent*, and *Richard Vernon* **Wheeler**, a chemical investigation of banded bituminous coal; studies in the composition of coal, 619.
the oxidation of coal, 895.
Tingle, *John Bishop*, obituary notice of, 453.
Titley, *Alan Francis*. See *Sydney* **Barratt**, and *James William* **McBain**.
Turner, *Eustace Ebenezer*. See *George Joseph* **Burrows**, and *Jacob* **Krizewsky**.

U.

Usher, *Francis Lawry*, and *Ramavenkatasubbier* **Venkateswaran**, the potential of a nitrogen electrode, 613.

V.

Venkateswaran, *Ramavenkatasubbier*. See *Francis Lawry* **Usher**.

W.

Walker, *Eric*, and *Thomas Campbell* **James**, molecular refractivity of cinnamic acid derivatives, 1243.
Watkins, *Stewart Byron*, and *Henry George* **Denham**, auto-complexes in solutions of cupric chloride and cupric bromide, 1269.
Werner, *Emil Alphonse*, the preparation of butylamine and of *n*-dibutylamine; the separation of aliphatic amines by partial neutralisation, 1010.
the constitution of carbamides. Part IX. The interaction of nitrous acid and mono-substituted ureas; the preparation of diazomethane, diazoethane, diazo-*n*-butane, and diazo-*iso*pentane from the respective nitrosoureas, 1093.
the constitution of carbamides. Part X. The behaviour of urea and of thiourea towards diazomethane and diazoethane respectively; the oxidation of thiourea by potassium permanganate, 1168.
Wheeler, *Richard Vernon*, the inflammation of mixtures of ethane and air in a closed vessel: the effects of turbulence, 81.
Wheeler, *Richard Vernon*. See also *Walter* **Mason**, *William* **Payman**, and *Frederick Vincent* **Tideswell**.
Whiston, *John Reginald Harvey*. See *David Leonard* **Chapman**.
White, *Albert Greville*, and *Tudor Williams* **Price**, the determination of ignition-temperatures by the soap-bubble method, 1248.
the ignition of ether-alcohol-air and acetone-air mixtures in contact with heated surfaces, 1462.
Will, (*Miss*) *Helen Reid*. See *Joseph* **Knox**.
Wilson, *Stanley Pierce*. See *Hubert Frank* **Coward**.
Wood, *John Kerfoot*. See *Alexander* **McKenzie**.
Wren, *Henry*. See *Alexander* **McKenzie**.
Wright, *Robert*, the effect of some simple electrolytes on the temperature of maximum density of water, 119.
molecular-weight determination by direct measurement of the lowering of the vapour pressure of solutions, 1165.

INDEX OF SUBJECTS.

TRANSACTIONS. 1919.

Single organic compounds of known empirical formula will be found in the Formula Index, p. 1530.

A.

Acids, aliphatic, melting points of substituted amides of (ROBERTSON), 1210.
dicarboxylic, esters of, action of Grignard reagents on (HEPWORTH), 1203.
organic, basic properties of oxygen in (KNOX and RICHARDS), 508.
weak, effect of neutral salts on the dissociation of (McBAIN and KAM), 1332.
Aconitic acid, $C_6H_6O_6$.
Address, presidential (POPE), 397.
Affinity, duplex, theory of (BRIGGS), 278.
Alacreatine, $C_4H_7ON_3$.
Aldehydes, condensation of deoxybenzoin with (DAS and GHOSH), 817; (SINGH and MAZUMDER), 821.
Alkaloids from *Holarrhena congolensis* (PYMAN), 163.
Alkyl iodides, reactions of mercury mercaptide nitrites with (RÂY and GUHA), 261, 541, 1148; (RÂY), 548.
Amides, acid aliphatic substituted, melting points of (ROBERTSON), 1210.
Amines, separation of (WERNER), 1010.
Ammonia, synthesis of, at high temperatures (MAXTED), 113.
Ammonium nitrate, freezing point and transition temperatures of (EARLY and LOWRY), 1387.
Analysis, electro-volumetric, effect of dilution in (FREAK), 55.
quantitative, use of freezing-point determinations in (FAWSITT), 801.
Annual General Meeting, 384.
Arsenic:—
Arsenious chloride, reaction between stannous chloride and (DURRANT), 134.
Arsenic, estimation of, in substituted phenylarsinic acids (FARGHER), 982.
Atmospheric air, propagation of flame in mixtures of acetylene and (MASON and WHEELER), 578.
ignition of mixtures of, with alcohol and ether, and with acetone (WHITE and PRICE), 1462.
ignition of mixtures of ethane and (WHEELER), 81.
apparatus for estimation of oxygen in (ASTON), 472.
Atomic structure and emission spectra (NICHOLSON), 855.
and the quantum theory (JEANS), 865.
weights, report of the International Committee on, 879.
table of, 885.
Atrolactinic acid, $C_9H_{10}O_3$.
Atropic acid, $C_9H_8O_2$.
Azo-colouring matters (MORGAN and EVENS), 1138; (MORGAN and EVANS), 1143.

B.

Balance, trustworthiness of, over long periods of time (DEAN), 826.
Balance sheets of the Chemical Society and of the Research Fund. See Annual General Meeting, 384.
Bases, weak, effect of neutral salts on the dissociation of (McBAIN and KAM), 1332.
Benzene ring, asymmetric substitution in (GOUGH and THORPE), 1155.
iso-ψ-**Berberidene**, $C_{20}H_{20}O_4$.
Betonicine, $C_7H_{13}O_3N$.
"**Blue John**" (BLOUNT and SEQUEIRA), 795.
Burgundy mixtures, chemistry of (MOND and HEBERLEIN), 908.
n-**Butylarylamines** (REILLY and HICKINBOTTOM), 175.

C.

Cadmium *sub*oxide, preparation of (DENHAM), 556.
Camphane series, studies in (FORSTER and SPINNER), 889.
Capsaicin, $C_{18}H_{27}O_3N$.
Carbamides, constitution of (WERNER), 1093, 1168.
Carbon, equilibrium in the system, methane, hydrogen and (COWARD and WILSON), 1380.
kinetics of the reduction of metallic oxides by (SLADE and HIGSON), 205.
Carbon *mono*xide, combustion of, in hydrogen (RIDEAL), 993.
*di*oxide, pressure of, in sea water (PRIDEAUX), 1223.
Carbonatopentamminecobaltic nitrate, preparation of (BRIGGS), 75.
Catalysis, studies in (LEWIS), 182, 710, 1360.
Chemical constitution and optical rotatory power (SINGH and MAZUMDER), 566.
reactivity, quantum radiation hypothesis of, and the Le Chatelier-Braun principle (LEWIS), 710.
Chemistry in the national service (POPE), 397.
Chlorine, interaction of hydrogen and (CHAPMAN and WHISTON), 1264.
Chloropicrin, CO_2NCl_3.
Chromatoaquotriamminecobaltic dichromate (BRIGGS), 75.
Chromatocobaltiammines (BRIGGS), 67.
Chromatohydroxytriamminecobalt (BRIGGS), 74.
Chromatopentamminecobaltic salts (BRIGGS), 69.
Chromatotetramminecobaltic salts (BRIGGS), 72.
Cinnamic acid derivatives, molecular refractivity of (WALKER and JAMES), 1243.
Coagulation of hydrosols (MUKHERJEE and SEN), 461.
Coal, composition of (TIDESWELL and WHEELER), 619.
oxidation of (TIDESWELL and WHEELER), 895.
Colloidal electrolytes (MCBAIN, LAING, and TITLEY), 1279.
Colouring matters from quinolinic acid (GHOSH), 1102.
See also Dryophantin.
spiro-**Compounds**, formation and stability of (INGOLD and THORPE), 321.
Conessine, $C_{24}H_{40}N_2$.
Copper sulphate and sodium carbonate, chemistry of mixtures of (MOND and HEBERLEIN), 908.
Copper:—
Cupric bromide and chloride, complex compounds in solutions of (WATKINS and DENHAM), 1269.
Copper organic compounds:—
Cupric chloride, action of, with mercaptans and thioamides (RÂY), 871.
salts, action of magnesium organic compounds with (KRIZEWSKY and TURNER), 559.
Critical solution temperature of ternary mixtures (ORTON and JONES), 1055.
Croton gubouga, constituents of the bark of (GOODSON and CLEWER), 923.
Cryptopidene, $C_{20}H_{20}O_4$.
Cryptopine, $C_{21}H_{23}O_5N$.
Curcumin, $C_{21}H_{20}O_6$.

D.

Diazonium salts, action of glyoxaline-carboxylic esters and anilides with (FARGHER and PYMAN), 1015.
Diazo-oxides, internal, constitution of (MORGAN and EVENS), 1126.
Diazophenols. See Diazo-oxides.
Diffusion of solutions across membranes of amyl alcohol and copper ferrocyanide (DONNAN and GARNER), 1313.
Dimethylrhodim, C_5H_7ONS.
2:5-Dimethylthien, $C_6H_8S_2$.
Disaccharides, constitution of (HAWORTH and LEITCH), 809.
Dispersion, rotatory, of organic compounds (LOWRY and ABRAM), 300.
Dithiazylamine, $C_2H_2N_3S_2$.
Dryophantin, $C_{23}H_{28}O_{15}$.

E.

Electrode, nitrogen, potential of (USHER and VENKATESWARAN), 613.
Electrolytes, colloidal. See Colloidal.
Elements, chemical, and radioactive change (SODDY), 1.
Equilibrium of solutions between membranes of amyl alcohol and copper ferrocyanide (DONNAN and GARNER), 1313.
Explosion, temperatures of, of endothermic substances (DATTA and CHATTERJEE), 1006.
Extraction apparatus, automatic (TCHERNIAC), 1090.

F.

Flame, propagation of, in gaseous mixtures (COWARD, CARPENTER, and PAYMAN), 27; (PAYMAN and WHEELER), 36; (WHITE and PRICE), 1248, 1462; (PAYMAN), 1436, 1446, 1454.

Flame, propagation of, in mixtures of acetylene and air (MASON and WHEELER), 578.
propagation of, in mixtures of ethane and air (WHEELER), 81.
Fluorite. See Fluorspar.
Fluorspar (BLOUNT and SEQUEIRA), 705.
Freezing point of solutions (FAWSITT), 790.
Freezing-point determinations, use of, in analysis (FAWSITT), 801.

G.

Galls. See Knopper and Pea galls.
Gases, ignition of mixtures of (COWARD, CARPENTER, and PAYMAN), 27; (PAYMAN and WHEELER), 36; (MASON and WHEELER), 578; (WHITE and PRICE), 1248, 1462; (PAYMAN), 1436, 1446, 1454.
explosive, electrical ignition of (MORGAN), 94.
Glutaconic acids, chemistry of (THORPE), 679.
Glyoxalinecarboxylic acids, anilides and esters, action of, with diazonium salts (FARGHER and PYMAN), 1015.
Grignard reagents, action of, with esters of dicarboxylic acids (HEPWORTH), 1203.

H.

Harmaline, $C_{13}H_{14}ON_2$.
Harman, $C_{12}H_{10}N_2$.
Harmine, $C_{13}H_{12}ON_2$.
Hemlock, Canadian. See *Tsuga canadensis*.
Hexoses, conversion of, into their enolic and ethylene oxide forms (ARMSTRONG and HILDITCH), 1410.
Holarrhena congolensis, alkaloids of (PYMAN), 163.
Holarrhenine, $C_{24}H_{35}ON_2$.
Hydrogen, equilibrium in the system: carbon, methane and (COWARD and WILSON), 1380.
influence of hydrogen sulphide on the absorption of, by palladium (MAXTED), 1050.
combustion of carbon monoxide in (RIDEAL), 993.
interaction of chlorine and (CHAPMAN and WHITE), 1264.
Hydrosols, coagulation of (MUKHERJEE and SEN), 461.
Hygric acid, 4-hydroxy-, $C_6H_{11}O_3N$.
Hyoscine, $C_{17}H_{21}O_4N$.

I.

Ignition of gaseous mixtures (COWARD, CARPENTER, and PAYMAN), 27; (PAYMAN and WHEELER), 36; (WHITE and PRICE), 1248, 1462; (PAYMAN), 1436, 1446, 1454.
of explosive gases by electric sparks (MORGAN), 94.
of mixtures of acetylene and air (MASON and WHEELER), 578.
of mixtures of ethane and air (WHEELER), 81.
Imino-compounds, formation and reactions of (KON and THORPE), 686.
Indene derivatives (INGOLD and THORPE), 143.

K.

Ketones, condensation of, with cyanoacetamide, and with ethyl cyanoacetate (KON and THORPE), 686.
Knopper galls, tannin from (NIERENSTEIN), 1174.

L.

Lead *sub*sulphate (DENHAM), 109.
Lectures, delivered before the Chemical Society (SODDY), 1; (NICHOLSON), 855; (JEANS), 865.

M.

Magnesium, reaction between sodium chloride solutions and (HUGHES), 272.
Magnesium organic compounds, action of cupric salts on (KRIZEWSKY and TURNER), 559.
Maltose, $C_{12}H_{22}O_{11}$.
Mercaptans, action of, with cupric and mercuric chlorides (RÂY), 871.
compounds of mercuric nitrite with, and their reactions with alkyl iodides (RÂY and GUHA), 261, 541, 1148; (RÂY), 548.
Mercury:—
Mercuric chloride, action of acetylene with (CHAPMAN and JENKINS), 847.
sulphoxychloride (RÂY and SEN), 552.
Mercury organic compounds:—
Mercuric chloride, action of, with mercaptans and thioamides (RÂY), 871.
iodide, reactions of, with ethyl sulphide and alkyl iodides (RÂY and GUHA), 1154.
Mercury mercaptide nitrites, reactions of, with alkyl iodides (RÂY and GUHA), 26, 541, 1148; (RÂY), 548.

Metallic oxides, kinetics of the reduction of, by carbon (SLADE and HIGSON), 205.
sulphides, coagulation of hydrosols of (MUKHERJEE and SEN), 461.
Meteloidine, $C_{13}H_{21}O_4N$.
Methoxyl groups, estimation of (HEWITT and JONES), 193.
α- and β-Methylrhodim, C_4H_5ONS.
Mixtures, ternary, critical solution temperature of (ORTON and JONES), 1055.
Molecular refractivity of cinnamic acid derivatives (WALKER and JAMES), 1243.

N.

ψ-1:8-*iso*Naphthoxazones, $C_{12}H_7O_2N$.
Nicotine, $C_{10}H_{14}N_2$.
Nitrides, dissociation pressures of (SLADE and HIGSON), 215.
Nitrogen *per*oxide or *tetr*oxide (*nitric peroxide*), mutual solubility of nitric acid and (BOUSFIELD), 45.
Nitric acid, mutual solubility of nitrogen peroxide and (BOUSFIELD), 45.
Nitrogen electrode. See Electrode.
Nitroprussides, constitution and properties of (BURROWS and TURNER), 1429.

O.

Obituary notices:—
James Hector Barnes, 409.
John Percy Batey, 408.
Charles William Dick, 409.
George Carey Foster, 412.
Edward Frank Harrison, 562.
William Joel Kemp, 427.
Sydney Lupton, 430.
George Martineau, 434.
Sir Alexander Pedler, 436.
Joseph Price Remington, 438.
Jean Jacques Théophile Schloesing, 440.
Alfred Senier, 446.
John Bishop Tingle, 453.
Olefine oxides, velocity of combination of sodium derivatives of phenols with (BOYD and THOMAS), 1239.
Optical rotatory power and chemical constitution (SINGH and MAZUMDER), 566.
Organic compounds, rotatory dispersion of (LOWRY and ABRAM), 300.
Oscine, $C_8H_{13}O_2N$.
Oxygen, basic properties of, in organic acids and phenols, and its quadrivalency (KNOX and RICHARDS), 508.
Oxygen, apparatus for estimation of, in air (ASTON), 472.

P.

Palladium, influence of hydrogen sulphide on the absorption of hydrogen by (MAXTED), 1050.
Pea galls, red, colouring matter of (NIERENSTEIN), 1328.
Phenols, basic properties of oxygen in (KNOX and RICHARDS), 508.
iodination of (COFMAN), 1040.
sodium derivatives, velocity of combination of, with olefine oxides (BOYD and THOMAS), 1239.
Phenol derivatives, oxidation of (HINSHELWOOD), 1180.
Phenylarsinic acids, substituted, estimation of arsenic in (FARGHER), 982.
Photography, new phenomenon in (MCARTHUR and STEWART), 973.
Porphyroxine, $C_{19}H_{23}O_4N$.
Purity, determination of, by the critical solution temperature (ORTON and JONES), 1194.

Q.

Quantum theory and atomic structure (JEANS), 865.
Quinolinanil, $C_{13}H_8O_2N_2$.

R.

Radiation hypothesis, application of, to catalysis (LEWIS), 182, 710, 1360.
Radioactive change and the conception of chemical elements (SODDY), 1.

S.

Sea water. See under Water.
Selenium organic compounds, aromatic (PYMAN), 166.
Soap solutions as colloidal electrolytes (MCBAIN, LAING, and TITLEY), 1279.
Soaps, hydration of the particles forming the curd of (MCBAIN and TAYLOR), 1300.
Sodium carbonate and copper sulphate, chemistry of mixtures of (MOND and HEBERLEIN), 908.
chloride, free energy of dilution of aqueous solutions of (ALLMAND and POLACK), 1020.
reaction between solutions of, and metallic magnesium (HUGHES), 272.
hypochlorite (APPLEBEY), 1106.

Solutions, freezing point of (FAWSITT), 790.
diffusion and equilibrium of, between membranes of amyl alcohol and copper ferrocyanide (DONNAN and GARNER), 1313.
Spectra, emission, and the structure of atoms (NICHOLSON), 855.
Spectrophotometer, new sector (LEWIS), 312.
Spiro-compounds. See under Compounds.
Stannous salts. See under Tin.
Substitution, asymmetric, in the benzene ring (GOUGH and THORPE), 1155.
Sugars, conversion of, into their enolic and ethylene oxide forms (ARMSTRONG and HILDITCH), 1410.
Sugar-cane, aconitic acid in the juice of (TAYLOR), 886.
Sulphides. See Metallic sulphides.

T.

Tannin from hemlock, preparation and reactions of (MANNING and NIERENSTEIN), 665.
from knopper galls (NIERENSTEIN), 1174.
Tautomeric compounds, elimination of the carbethoxyl group from (INGOLD and THORPE), 143.
Terpene derivatives, rotatory dispersion of (LOWRY and ABRAM), 300.
Thioamides, action of, with cupric and mercuric chlorides (RÂY), 876.
Tin:—
Stannous, chloride, reaction between arsenious chloride and (DURRANT), 134.
Trichromato-octamminedicobalt (BRIGGS), 73.
Tropic acid, $C_9H_{10}O_3$.
Tsuga canadensis (hemlock), tannin of (MANNING and NIERENSTEIN), 662.
Tsuginic acid, bromo-, $C_8H_7O_4Br$.
Turicine, $C_7H_{12}O_2N$.

V.

Valency, polar and non-polar (DE), 127.

W.

Water, effect of electrolytes on the temperature of maximum density of (WRIGHT), 119.
Sea water, effect of sea-salt on the pressure of carbon dioxide and alkalinity in (PRIDEAUX), 1223.
Weights, molecular, determination of, by measurement of vapour pressure lowering (WRIGHT), 1165.

FORMULA INDEX.

THE following index of organic compounds of known empirical formula is arranged according to Richter's system (see *Lexikon der Kohlenstoff-Verbindungen*).

The elements are given in the order C, H, O, N, Cl, Br, I, F, S, P, and the remainder alphabetically.

The compounds are arranged—

Firstly, in groups according to the number of carbon atoms (thus C_1 group, C_2 group, etc.).

Secondly, according to the number of other elements besides carbon contained in the molecule (thus 5 IV indicates that the molecule contains five carbon atoms and four other elements).

Thirdly, according to the nature of the elements present in the molecule (given in the above order).

Fourthly, according to the number of atoms of each single element (except carbon) present in the molecule.

Salts are placed with the compounds from which they are derived. The chlorides, bromides, iodides, and cyanides of quaternary ammonium bases, however, are registered as group-substances.

C_1 Group.

CH_4 Methane, equilibrium in the system: carbon, hydrogen and (COWARD and WILSON), 1380.

CO Carbon monoxide, combustion of, in hydrogen (RIDEAL), 993.

CO_2 Carbon dioxide, pressure of, in sea water (PRIDEAUX), 1223.

1 II

CHN Hydrocyanic acid, catalytic reduction of (BARRATT and TITLEY), 902.

CH_2N_2 Diazomethane, interaction of, with carbamide and thiocarbamide (WERNER), 1168.

CH_5N Methylamine, preparation of, from chloropicrin (FRANKLAND, CHALLENGER, and NICHOLLS), 159.

1 III

CH_4ON_2 Carbamide, decomposition of, in presence of nitric acid (PRICE), 1354; interaction of, with diazomethane and diazoethane (WERNER), 1168.

CH_4N_2S Thiocarbamide, interaction of, with diazomethane and diazoethane, and its oxidation with potassium permanganate (WERNER), 1168.

CO_2NCl_3 Chloropicrin (GARDNER and FOX), 1188; reduction of (FRANKLAND, CHALLENGER, and NICHOLLS), 159.

C_2 Group.

C_2H_2 Acetylene, propagation of flame in mixtures of air and (MASON and WHEELER), 578; action of mercuric chloride with (CHAPMAN and JENKINS), 847.

C_2H_6 Ethane, ignition of mixtures of air and (WHEELER), 81.

2 II

$C_2H_2O_4$ Oxalic acid, double salts of, with the alkali metals (RIVETT and O'CONNOR), 1346.

$C_2H_4O_2$ Acetic acid, vapour pressure and dissociation of, in solution (MCBAIN and KAM), 1332; lead sub-salt (DENHAM), 109; silver salt, solubility of, in acetic acid (KNOX and WILL), 853.

$C_2H_4N_2$ Diazoethane, interaction of, with carbamide and thiocarbamide (WERNER), 1168.

C_2H_6O Ethyl alcohol, ignition of mixtures of ether, air and (WHITE and PRICE), 1462.

2 III

$C_2H_5O_2N_3$ Nitrosomethylurea, preparation and properties of (WERNER), 1095.

C_3 Group.

$C_3H_5N_3$ 2-Aminoglyoxaline, and its salts (FARGHER and PYMAN), 246.

C_3H_6O Acetone, vapour pressure and density of mixtures of methyl ethyl ketone and (PRICE), 1116; ignition of mixtures of air and (WHITE and PRICE), 1462.

$C_3H_6O_2$ Methyl acetate, rate of hydrolysis of, by hydrochloric acid (BURROWS), 1230.

Propionic acid, silver salt, solubility of, in propionic acid (KNOX and WILL), 853.

$C_3H_7N_5$ Substance, from oxidation of thiocarbamide with permanganate (WERNER), 1173.

$C_3H_8O_3$ Glycerol, and its nitric esters, absorption spectra of (HEPWORTH), 840.

3 III

$C_3H_4ON_2$ Cyanoacetamide, condensation of ketones with (KON and THORPE), 686.

$C_3H_8N_2S$ Ethyl*iso*thiocarbamide, and its picrate (WERNER), 1172.

C_4 Group.

C_4H_8 β-Butylene, preparation of (KING), 1406.

4 II

$C_4H_6O_6$ Tartaric acid, rotation dispersion of alkyl esters of (FRANKLAND and GARNER), 636.

$C_4H_6N_2$ 2-Methylglyoxaline, and its salts (FARGHER and PYMAN), 231.

C_4H_8O Methyl ethyl ketone, preparation of, from *n*-butyl alcohol (KING), 1404; vapour pressure and density of mixtures of acetone and (PRICE), 1116.

$C_4H_{10}O$ *n*-Butyl alcohol, pure, preparation of, and the detection of impurity in it (ORTON and JONES), 1194.

Ethyl ether, ignition of mixtures of alcohol, air and (WHITE and PRICE), 1462.

$C_4H_{10}S$ Ethyl sulphide, reactions of, with mercuric iodide and alkyl iodides (RÂY and GUHA), 1154.

$C_4H_{11}N$ Butylamine, preparation of (WERNER), 1010.

4 III

$C_4H_5O_3N_3$ Nitromethylglyoxalines (FARGHER and PYMAN), 234.

$C_4H_7ON_3$ Alacreatine, preparation of, and its salts (FARGHER and PYMAN), 253.

$C_4H_8O_7N_2$ Glyceryl methyl ether dinitrate (JONES), 76.

4 IV

C_4H_4NClS 2-Chloro-4-methylthiazole (TCHERNIAC), 1072.

C_4H_5ONS α-, β-, and *iso*-Methylrhodim (TCHERNIAC), 1075.

Thiocyanoacetone, and its isomerides (TCHERNIAC), 1071.

C_5 Group.

$C_5H_8N_2$ 4:5-Dimethylglyoxaline, and its hydrochloride (FARGHER and PYMAN), 233.

$C_5H_{10}N_2$ Diazo*iso*pentane (WERNER), 1101.

$C_5H_{12}O$ Amyl alcohol, use of, as a membrane (DONNAN and GARNER), 1313.

5 III

$C_5H_4O_4N_2$ Glyoxaline-4:5-dicarboxylic acid, preparation of, and its sodium salt (FARGHER and PYMAN), 227.

$C_5H_5O_4N_3$ 2-Aminoglyoxaline-4:5-dicarboxylic acid (FARGHER and PYMAN), 259.

$C_5H_4O_3N_2$ 2-Methylglyoxaline-4-carboxylic acid, and its salts (FARGHER and PYMAN), 230.

$C_5H_7ON_3$ 2-Acetylaminoglyoxaline (FARGHER and PYMAN), 248.

$C_5H_7O_2N$ Ethyl cyanoacetate, condensation of ketones with (KON and THORPE), 686.

$C_5H_{11}O_2N_3$ Nitroso-*n*-butylurea (WERNER), 1101.

$C_5H_{12}ON_2$ *n*-Butylurea (WERNER), 1101.

5 IV

$C_5H_2ON_6Fe$ Nitroprussic acid, alkali and methylammonium salts (BURROWS and TURNER), 1429.

$C_5H_3ON_2Cl$ Glyoxaline-4-acetyl chloride, hydrochloride of (FARGHER and PYMAN), 1019.

C_5H_7ONS Dimethylrhodim (TCHERNIAC), 1076.

C_6 Group.

$C_6H_4O_4$ Substance, from acetic anhydride and aconitic acid (TAYLOR), 889.

$C_6H_6O_6$ Aconitic acid, presence of, in sugar-cane juices, and its detection (TAYLOR), 886.

$C_6H_8S_2$ 2:5-Dimethylthiën (TCHERNIAC), 1085.

$C_6H_{10}N_2$ 2:4:5-Trimethylglyoxaline, and its picrate (FARGHER and PYMAN), 233.

6 III

$C_6H_4N_6Fe$ Ferrocyanic acid, copper salt, use of, as a membrane (DONNAN and GARNER), 1313.

C_6H_5ClS *p*-Chlorophenyl mercaptan, reaction of, with mercuric nitrite (RÂY and GUHA), 1154.

$C_6H_7O_3Se$ Phenylselenious acid, preparation of, and its sodium salt (PYMAN), 167.

$C_6H_6O_3Se$ Phenylselenic acid, and its salts (PYMAN), 169.

$C_6H_8O_2N_2$ 2-Ethylglyoxaline-4-carboxylic acid, and its picrate (FARGHER and PYMAN), 1017.

$C_6H_{11}O_3N$ 4-Hydroxyhygric acid (GOODSON and CLEWER), 926.

$C_6H_{13}ON$ Diacetonamine, preparation and reactions of (EVEREST), 588.

$C_6H_{13}O_2N_3$ Nitroso*iso*amylurea (WERNER), 1101.

6 IV

$C_6H_5O_4NSe$ *m*-Nitrophenylselenious acid (PYMAN), 169.

$C_6H_5O_5NSe$ *m*-Nitrophenylselenic acid, and its salts (PYMAN), 170.

$C_6H_7O_3NSe$ *m*-Aminophenylselenic acid, and its sodium salt (PYMAN), 175.

6 V

$C_6H_6O_3NIS$ Iodoanilinesulphonic acids, conductivity of (BOYLE), 1505.

C_7 Group.

C_7H_8 Toluene, determination of purity of (ORTON and JONES), 1055; commercial, estimation of the purity of (LUMSDEN), 1366.

7 II

C_7H_9N Methylaniline, preparation of (FRANKLAND, CHALLENGER, and NICHOLLS), 198.

C_7H_8S *p*-Tolyl mercaptan, reaction of, with mercuric nitrite (RÂY and GUHA), 1152.

$C_7H_{12}O_2$ *cyclo*Hexanecarboxylic acid, preparation of (INGOLD and THORPE), 376.

7 III

$C_7H_{10}O_2N_2$ Ethyl 2-methylglyoxaline-4-carboxylate (FARGHER and PYMAN), 1017.

$C_7H_{13}O_2N$ Betonicine, and its salts (GOODSON and CLEWER), 932.

Turicine, and its salts (GOODSON and CLEWER), 931.

7 IV

$C_7H_6O_5NAs$ 1:2-Dihydrobenzoxazolone-4-arsinic acid (FARGHER), 991.

$C_7H_6O_5N_2As$ 5-Nitro-6-amino-*m*-tolylarsinic acid (FARGHER), 989.

$C_7H_7O_3N_2As$ 1:3-Benzodiazolearsinic acids (BAXTER and FARGHER), 1372.

$C_7H_8O_3N_3As$ 7-Methyl-1:2:3-benzotriazole-5-arsinic acid (BAXTER and FARGHER), 1378.

$C_7H_{11}O_3N_2As$ 5:6-Diamino-*m*-tolylarsinic acid (BAXTER and FARGHER), 1377.

C_8 Group.

$C_8H_{12}O_4$ *cyclo*Hexane-1:1-dicarboxylic acid (INGOLD and THORPE), 376.

$C_8H_{12}O_6$ γ-Methylbutane-αβδ-tricarboxylic acid, preparation of (THORPE), 684.

$C_8H_{16}O_5$ Dimethyl methylarabinoside (IRVINE and DICK), 599.

$C_8H_{19}N$ *n*-Dibutylamine, preparation of (WERNER), 1010.

8 III

$C_8H_7O_4Br$ Bromotsuginic acid (MANNING and NIERENSTEIN), 664.

$C_8H_9O_2N_3$ Nitrosobenzylurea (WERNER), 1101.

$C_8H_9N_3S_2$ Dithiazylamine, and its hydrochloride (TCHERNIAC), 1082.

$C_8H_{10}ON_2$ α-Cyano-Δ^1-*cyclo*penteneacetamide (KON and THORPE), 697.

$C_8H_{12}O_2N_2$ Ethyl 2-ethylglyoxaline-4-carboxylate (FARGHER and PYMAN), 1018.

$C_8H_{12}O_3N_2$ Ethyl α-hydroxy-β-glyoxaline-4-propionate (FARGHER and PYMAN), 1020.

$C_8H_{13}O_2N$ Oscine, and its salts, resolution of (KING), 476.

$C_8ON_6S_9$ Substance, from chloropicrin and the potassium salt of 2:5-dithiol-1:3:4-thiodiazole (RÂY, GUHA, and DAS), 1312.

8 IV

$C_8H_9O_3NSe$ *m*-Acetylaminophenylselenious acid, and its sodium salt (PYMAN), 173.

$C_8H_9O_3N_2As$ Methyl-1:3-benzodiazole-5-arsinic acids (BAXTER and FARGHER), 1377.

$C_8H_9O_4NSe$ *m*-Acetylaminophenylselenic acid, salts of (PYMAN), 174.

C_9 Group.

$C_9H_8O_2$ Atropic acid, preparation of (MCKENZIE and WOOD), 834.

Cinnamic acid, molecular refractivity of derivatives of (WALKER and JAMES), 1243.

$C_9H_8N_2$ 2-Phenylglyoxaline, preparation of, and its salts (FARGHER and PYMAN), 232.

$C_9H_8N_4$ Benzeneazoglyoxaline (FARGHER and PYMAN), 237.

$C_9H_{10}O_3$ Atrolactinic acid, preparation of (MCKENZIE and WOOD), 833.

ω-Hydroxy-*m*-tolylacetic acid (GOUGH and THORPE), 1162.

Tropic acid, and its salts, resolution of (KING), 476.

Tropic acids, preparation of (MCKENZIE and WOOD), 828.

$C_9H_{10}N_4$ 2-Amino-4-*p*-aminophenylglyoxaline, and its salts (FARGHER and PYMAN), 239.

$C_9H_{12}O_3$ *cyclo*Pentane-1:1-diacetic anhydride (KON and THORPE), 700.

$C_9H_{14}O_3$ β-Methyl-β-*iso*propylglutaric anhydride (Kon and Thorpe), 702.
$C_9H_{14}O_4$ *cyclo*Pentane-1:1-diacetic acid, and its silver salt (Kon and Thorpe), 700.
$C_9H_{14}O_7$ Trimethylsaccharolactone (Haworth and Leitch), 816.
$C_9H_{16}O_4$ β-Methyl-β-*iso*propylglutaric acid (Kon and Thorpe), 702.

9 III

$C_9H_7N_4Br$ 2- and 4-*p*-Bromobenzeneazoglyoxalines (Fargher and Pyman), 243.
C_9H_8NBr ω-Bromo-*m*-tolylacetonitrile (Gough and Thorpe), 1161.
C_9H_9ON ω-Hydroxy-*m*-tolylacetonitrile (Gough and Thorpe), 1162.
$C_9H_9O_2Cl$ β-Chlorohydratropic acid, preparation of (McKenzie and Wood), 835.
$C_9H_9O_4Br$ Methyl bromotsuginate (Manning and Nierenstein), 664.
$C_9H_9N_4Br$ 2-5′-Bromo-2′-aminoanilinoglyoxaline (Fargher and Pyman), 246.
$C_9H_{10}ON_2$ Base, from reduction of 5-benzeneazo-4-methylglyoxaline (Fargher and Pyman), 253.
$C_9H_{13}O_2N$ Imide of *cyclo*pentane-1:1-diacetic acid (Kon and Thorpe), 700.
$C_9H_{20}ON_2$ *as*-Dibutylcarbamide (Werner), 1014.

9 IV

$C_9H_{10}O_6NAs$ 6-Oxalylamino-*m*-tolylarsinic acid (Fargher), 989.
$C_9H_{10}O_7NAs$ 5-Nitro-6-hydroxy-*m*-tolylarsinic acid (Fargher), 990.
$C_9H_{11}O_3N_2As$ 2:7-Dimethyl-1:3-benzodiazole-5-arsinic acid (Baxter and Fargher), 1379.
$C_9H_{18}ONCl$ Dibutylcarbamyl chloride (Werner), 1013.

C_{10} Group.

$C_{10}H_8O_3$ Aldehyde, from hemlock tannin (Manning and Nierenstein), 668.
$C_{10}H_8O_4$ Acid, and its salts, from oxidation of aldehyde from hemlock tannin (Manning and Nierenstein), 668.
$C_{10}H_8S$ α-Naphthyl mercaptan, reaction of, with mercuric nitrite (Rây and Guha), 1150.
$C_{10}H_9N$ β-Naphthylamine, formation of diazoamino-compounds from (Norman), 673.
$C_{10}H_{10}N_4$ Benzeneazo-4-methylglyoxalines (Fargher and Pyman), 249.
$C_{10}H_{12}O_3$ Ethyl *l*-mandelate, catalytic racemisation of (McKenzie and Wren), 602.
$C_{10}H_{12}N_4$ 2-Amino-5-*p*-aminophenyl-4-methylglyoxaline, and its salts (Fargher and Pyman), 250.
$C_{10}H_{13}N$ Neomethylhydrindamines, optically active, and their salts (Harris), 61.
$C_{10}H_{14}O_2$ Glycol *o*- and *m*-xylyl ethers (Boyd and Thomas), 1243.
$C_{10}H_{14}N_2$ Nicotine, physical constants of (Jephcott), 104.
$C_{10}H_{16}O_4$ 2-Methyl*cyclo*pentane-1:1-diacetic acid (Kon and Thorpe), 697.

10 III

$C_{10}H_7O_3N$ 4-Nitro-β-naphthol (Morgan and Evens), 1132.
$C_{10}H_7O_4N_3$ 2:4-Dinitro-α-naphthylamine, preparation of (Morgan and Evens), 1128.
$C_{10}H_8O_2N_2$ 2-Phenylglyoxaline-4-carboxylic acid (Fargher and Pyman), 1018.
$C_{10}H_9ON_3$ 2-Benzoylaminoglyoxaline (Fargher and Pyman), 248.
Glyoxaline-4-carboxyanilide (Fargher and Pyman), 228.

$C_{10}H_9O_5Br$ Acetyl derivative of bromotsuginic acid (MANNING and NIERENSTEIN), 664.

$C_{10}H_9N_4Br$ 4-*p*-Bromobenzeneazo-2-methylglyoxaline (FARGHER and PYMAN), 256.

$C_{10}H_{11}ON_3$ Base, from reduction of 5-benzeneazo-4-methylglyoxaline (FARGHER and PYMAN), 255.

$C_{10}H_{11}O_4Br$ Ethyl bromotsuginate (MANNING and NIERENSTEIN), 664.

10 IV

$C_{10}H_8O_2N_2S_3$ Substance, from chloroacetic acid and the potassium salt of 2-thiol-5-thio-4-phenyl-4:5-dihydro-1:3:4-thiodiazole (RÂY, GUHA, and DAS), 1312.

$C_{10}H_9N_2BrS_3$ Substance, from ethylene bromide and the potassium salt of 2-thiol-5-thio-4-phenyl-4:5-dihydro-1:3:4-thiodiazole (RÂY, GUHA, and DAS), 1312.

$C_{10}H_{13}O_5N_2As$ 3:4-Diacetylaminophenylarsinic acid (BAXTER and FARGHER), 1376.

C_{11} Group.

$C_{11}H_9N$ Indenyl-3-acetonitrile (INGOLD and THORPE), 152.

$C_{11}H_{10}O_4$ Ethyl ester of acid, from hemlock tannin (MANNING and NIERENSTEIN), 668.

$C_{11}H_{11}N$ β-Naphthylmethylamine, preparation of (MORGAN and EVANS), 1140.

$C_{11}H_{12}O_4$ β-ω-Carboxy-*m*-tolylpropionic acid, and its salts (GOUGH and THORPE), 1164.

$C_{11}H_{14}O_3$ 5-*cyclo*Hexane*spiro*di*cyclo*pentan-3-one-1-carboxylic acid (INGOLD and THORPE), 364.

$C_{11}H_{14}O_5$ *cyclo*Pentane-1:1-dimalonic acid (KON and THORPE), 700.

$C_{11}H_{16}O_2$ Glycol mesityl ether (BOYD and THOMAS), 1243.

$C_{11}H_{16}O_3$ 5-*cyclo*Hexane*spirocyclo*pentan-3-one-1-carboxylic acid (INGOLD and THORPE), 372.

$C_{11}H_{18}O_3$ 5-*cyclo*Hexane*spirocyclo*pentan-3-ol-1-carboxylic acid (INGOLD and THORPE), 373.

$C_{11}H_{18}O_4$ 2-Methyl*cyclo*hexane-1:1-diacetic acid, and its silver salt (KON and THORPE), 694.

$C_{11}H_{18}N_2$ Tolylene-4-*N*-*n*-butyldiamines, and their hydrochlorides (REILLY and HICKINBOTTOM), 176.

11 III

$C_{11}H_9O_3N$ 4-Nitro-β-naphthyl methyl ether (MORGAN and EVENS), 1133.

$C_{11}H_{10}ON_2$ 1-Nitroso-β-naphthylmethylamine (MORGAN and EVANS), 1141.

$C_{11}H_{11}ON_3$ 2-Methylglyoxaline-4-carboxyanilide (FARGHER and PYMAN), 230.

$C_{11}H_{11}O_2N$ β-ω-Cyano-*m*-tolylpropionic acid (GOUGH and THORPE), 1164.

$C_{11}H_{11}O_2N_3$ ω-Imide-αα′-dicyano*cyclo*pentane-1:1-diacetic acid (KON and THORPE), 701.

$C_{11}H_{11}O_2Cl$ Ethyl α-chlorocinnamates (WALKER and JAMES), 1247.

$C_{11}H_{12}O_4N_2$ ω-Di-imide of *cyclo*pentane-1:1-dimalonic acid (KON and THORPE), 699.

$C_{11}H_{13}ON$ ω-Ethoxy-*m*-tolylacetonitrile (GOUGH and THORPE), 1163.

$C_{11}H_{12}O_2N_2$ ω-Imide of αα′-dicyano-β-methyl-β-*iso*propylglutaric acid (KON and THORPE), 702.

$C_{11}H_{14}O_2N_4$ ω-Di-iminodi-imide of *cyclo*pentane-1:1-dimalonic acid ($+\frac{1}{2}H_2O$) (KON and THORPE), 698.

$C_{11}H_{13}O_4N_3$ ω-Imide of αα′-dicarbamyl*cyclo*pentane-1:1-diacetic acid (KON and THORPE), 701.

$C_{11}H_{17}O_7N$ Amide of *cyclo*pentane-1:1-dimalonic acid (KON and THORPE), 699.

11 IV

$C_{11}H_8O_7N_4S$ 2-*p*-Sulphobenzeneazoglyoxaline-4:5-dicarboxylic acid ($+2H_2O$), and its sodium salt (FARGHER and PYMAN), 258.

C_{12} Group.

$C_{12}H_{10}$ Diphenyl, preparation of (KRIZEWSKY and TURNER), 559.

12 II

$C_{12}H_{10}N_2$ Harman, preparation of, and its salts (PERKIN and ROBINSON), 971.

$C_{12}H_{11}N$ α-Indenyl-2- and -3-propionitriles (INGOLD and THORPE), 153.

$C_{12}H_{12}O_4$ 5-*cyclo*Hexane*spiro*di*cyclo*pentan-3-one-1:2-dicarboxylic anhydride (INGOLD and THORPE), 363.

$C_{12}H_{14}O_5$ Anhydride of 3-*cyclo*hexane*spiro*-1-methyl*cyclo*propane-1:1′:2-tricarboxylic acid (INGOLD and THORPE), 379.

5-*cyclo*Hexane*spiro*di*cyclo*pentan-3-one-1:2-dicarboxylic acid (INGOLD and THORPE), 362.

cis-3-Hydroxy-4-*cyclo*hexyl*cyclo*butan-2-one-3:4-dicarboxylic anhydride (INGOLD and THORPE), 366.

$C_{12}H_{14}O_7$ Ethyl dihydrogen 5:5-dimethyldi*cyclo*pentan-3-one-1:2:4-tricarboxylate (INGOLD and THORPE), 383.

$C_{12}H_{16}O_6$ 3-*cyclo*Hexane*spiro*-1-methyl*cyclo*propane-1:1′:2-tricarboxylic acid (INGOLD and THORPE), 379.

cis- and *trans*-3-Hydroxy-4-*cyclo*hexyl*cyclo*butan-2-one-3:4-dicarboxylic acids, and their salts (INGOLD and THORPE), 364.

$C_{12}H_{18}O_3$ 2:4-Dimethyl*cyclo*hexane 1:1-diacetic anhydride (KON and THORPE), 696.

$C_{12}H_{20}O_4$ 2:4-Dimethyl*cyclo*hexane-1:1-diacetic acid (KON and THORPE), 695.

$C_{12}H_{22}O_{11}$ Maltose, constitution of (IRVINE and DICK), 593; (HAWORTH and LEITCH), 809.

12 III

$C_{12}H_7O_2N$ ψ-1:8-*iso*Naphthoxazones, and their salts (DEY and GOSWAMI), 531.

$C_{12}H_9O_2N$ Indenyl-2- and -3-cyanoacetic acids (INGOLD and THORPE), 151.

$C_{12}H_9O_5N_3$ 5-Nitrophenol-2-azoresorcinol (MORGAN and EVENS), 1137.

$C_{12}H_{10}O_3N_2$ *N*-Nitroso-5:6:7:8-tetrahydro-ψ-1:8-*iso*naphthoxazone (DEY and GOSWAMI), 539.

$C_{12}H_{11}O_2N$ 5:6:7:8-Tetrahydro-ψ-1:8-*iso*naphthoxazone (DEY and GOSWAMI), 538.

$C_{12}H_{11}O_2Cl$ Allyl α-chlorocinnamates (WALKER and JAMES), 1247.

$C_{12}H_{11}O_4As$ *pp′*-Dihydroxydiphenylarsinic acid (FARGHER), 986.

$C_{12}H_{12}O_2N_2$ Ethyl 2-phenylglyoxaline-4-carboxylate (FARGHER and PYMAN), 1019.

$C_{12}H_{12}N_2Se_2$ Di-*m*-aminophenyl diselenide, and its hydrochloride (PYMAN), 171.

$C_{12}H_{13}ON_3$ 2-Ethylglyoxaline-4-carboxyanilide (FARGHER and PYMAN), 1017.

$C_{12}H_{13}O_2N_3$ ω-Imide of αα′dicyano-2-methyl*cyclo*pentane-1:1-diacetic acid (KON and THORPE), 697.

$C_{12}H_{15}O_2N_3$ ω-Imide of αα′-dicyano-β-methyl-β-ψ-butylglutaric acid (KON and THORPE), 702.

$C_{12}H_{17}ON_3$ Benzyl *iso*propyl ketone semicarbazone (KON and THORPE), 703.

$C_{12}H_{17}O_3N_3$ Semicarbazone of 5-*cyclo*hexane*spiro*di*cyclo*pentan-3-one-1-carboxylic acid (INGOLD and THORPE), 364.

$C_{12}H_{19}O_3N_3$ Semicarbazone of 5-*cyclo*hexane*spirocyclo*pentan-3-one-1-carboxylic acid (INGOLD and THORPE), 373.

12 IV

$C_{12}H_8O_4N_2Se_2$ Di-*m*-nitrophenyl diselenide (PYMAN), 170.

$C_{12}H_9O_8N_2As$ 3:3′-Dinitro-4:4′-dihydroxydiphenylarsinic acid (FARGHER), 986.

$C_{12}H_{11}O_6N_4As$ 3:3′-Dinitro-4:4′-diaminodiphenylarsinic acid (FARGHER), 989.

12 V

$C_{13}H_{11}O_2N_2ClAs$ 3:3′-Diamino-4:4′-dihydroxydiphenylarsenious chloride, dihydrochloride of (FARGHER), 987.

C_{13} Group.

$C_{13}H_{13}N$ α-Indenyl-3-*n*-butyronitrile (INGOLD and THORPE), 154.

$C_{13}H_{14}O_2$ *o*- and *p*-Hydroxybenzylidenemesityl oxide (GHOSH), 298.

$C_{13}H_{16}O_5$ *cis*-3-Hydroxy-4-*cyclo*hexyl-1-methyl*cyclo*butan-2-one-3:4-dicarboxylic anhydride (INGOLD and THORPE), 372.

cis-Lactonic anhydride from γ-hydroxy-β-*cyclo*hexyl-α-methyltricarballylic acid (INGOLD and THORPE), 371.

$C_{13}H_{18}O_3$ 5-*cyclo*Hexane*spiro*-2-ethyl*cyclo*pentan-3-one-1-carboxylic acid (INGOLD and THORPE), 379.

$C_{13}H_{18}O_4$ *cis*- and *trans*-3-Hydroxy-4-*cyclo*hexyl-1-methyl*cyclo*butan-2-one 3:4-dicarboxylic acids (INGOLD and THORPE), 371.

cis- and *trans*-Lactonic acids from γ-hydroxy-β-*cyclo*hexyl-α-methyltricarballylic acid, and their silver salts (INGOLD and THORPE), 368.

$C_{13}H_{18}N_2$ 2:5-Dimethyl-1-*n*-butylbenziminazole, and its picrate (REILLY and HICKINBOTTOM), 178.

$C_{13}H_{20}O_4$ Acetyl derivative of 5-*cyclo*hexane*spirocyclo*pentan-3-ol-1-carboxylic acid (INGOLD and THORPE), 374.

$C_{13}H_{20}O_7$ *cis*- and *trans*-γ-Hydroxy-β-*cyclo*hexyl-α-methyltricarballylic acids, barium salts (INGOLD and THORPE), 369.

13 III

$C_{13}H_7O_4N$ 6-Nitro-1:2-α-naphthapyrone (DEY and GOSWAMI), 540.

$C_{13}H_8O_2N_2$ Quinolinanil (GHOSH), 1103.

$C_{13}H_9O_2N$ 9-Methyl ψ-1:8-*iso*naphthoxazone, and its salts (DEY and GOSWAMI), 539.

$C_{13}H_9O_3N_3$ Quinolinylphenylhydrazine (GHOSH), 1103.

$C_{13}H_{12}ON_2$ Harmine, and its salts (PERKIN and ROBINSON), 946.

Methylnorharmine (PERKIN and ROBINSON), 951.

$C_{13}H_{12}O_3N_2$ Nitroso-5:6:7:8-tetrahydro-9-methyl-ψ-1:8-*iso*naphthoxazone (DEY and GOSWAMI), 539.

$C_{13}H_{13}ON$ Aceto-β-naphthylmethylamide (MORGAN and EVANS), 1143.

$C_{13}H_{13}O_2N$ 5:6:7:8-Tetrahydro-9-methyl-ψ-1:8-*iso*naphthoxazone (DEY and GOSWAMI), 539.

$C_{13}H_{14}ON_2$ Harmaline, and its salts (PERKIN and ROBINSON), 951.

$C_{13}H_{14}O_2N_2$ Keto*iso*normethyltetrahydroharmine (PERKIN and ROBINSON), 959.

$C_{13}H_{14}O_2N_4$ 2-Acetylamino-4-*p*-acetylaminophenylglyoxaline, and its hydrochloride (FARGHER and PYMAN), 240.

$C_{13}H_{15}O_2N_3$ ω-Imide of αα′-dicyano-2-methyl*cyclo*hexane-1:1-diacetic acid (KON and THORPE), 694.

$C_{13}H_{19}O_4N_3$ ω-Imide of αα′-dicarbamyl-2-methyl*cyclo*hexane-1:1-diacetic acid (KON and THORPE), 694.

$C_{13}H_{20}ON_2$ 4-Acetyltolylene-4-*N*-*n*-butyldiamines (REILLY and HICKINBOTTOM), 176.

$C_{13}H_{21}O_4N$ Meteloidine, and its salts (KING), 501.

$C_{13}H_{28}ON_3$ Tributylcarbamide (WERNER), 1013.

13 IV

$C_{13}H_{10}O_3NI$ ψ-1:8-*iso*Naphthoxazone-*N*-methiodide (DEY and GOSWAMI), 538.

C_{14} Group.

$C_{14}H_8O_2$ Phenanthraquinone, basic properties of (KNOX and WILL), 850.

$C_{14}H_{12}O$ Deoxybenzoin, condensation of aldehydes with (DAS and GHOSH), 817; (SINGH and MAZUMDER), 821.

$C_{14}H_{13}N$ α-Indenyl-3-allylacetonitrile (INGOLD and THORPE), 155.

$C_{14}H_{14}O_3$ Piperonylidenemesityl oxide (GHOSH), 298.

$C_{14}H_{15}N$ α-Indenyl-3-*n*-valeronitrile (INGOLD and THORPE), 154.

$C_{14}H_{16}N_2$ Diphenylethylenediamine, preparation of, and its sulphate (BENNETT), 576.

$C_{14}H_{18}O_5$ Anhydride of *cis*-lactonic acid, $C_{14}H_{20}O_6$ (INGOLD and THORPE), 382.

Ethyl hydrogen 5-*cyclo*hexane*spiro*di*cyclo*pentan-3-one-1:4-dicarboxylate (INGOLD and THORPE), 361.

$C_{14}H_{20}O_6$ *cis*- and *trans*-Lactonic acids from γ-hydroxy-β-*cyclo*hexyl-α-ethyltricarballylic acid, and their silver salts (INGOLD and THORPE), 380.

$C_{14}H_{22}O_7$ *cis*- and *trans*-γ-Hydroxy-β-*cyclo*hexyl-α-ethyltricarballylic acids, and their barium salts (INGOLD and THORPE), 381.

14 III

$C_{14}H_8O_{16}N_{10}$ 2:4:6:2′:4′:6′-Hexanitrodiphenylethylenedinitroamine (BENNETT), 577.

$C_{14}H_{10}ON_2$ Phenylphthalalazone, preparation of (MITTER and SEN), 1147.

$C_{14}H_{10}O_2N_2$ Phenylazophthalide (MITTER and SEN), 1147.

$C_{14}H_{10}O_{12}N_6$ Hexanitrodiphenylethylenediamine (BENNETT), 578.

$C_{14}H_{10}N_4As_2$ 5:5′-Arseno-1:3:1′:3′-benzodiazole, and its dihydrochloride (BAXTER and FARGHER), 1376.

$C_{14}H_{11}O_2N$ 4:9-Dimethyl-ψ-1:8-*iso*naphthoxazone, and its salts (DEY and GOSWAMI), 539.

$C_{14}H_{12}O_2N_2$ Phthalaldehydic acid phenylhydrazone (MITTER and SEN), 1146.

$C_{14}H_{13}O_2N$ Ethyl indenyl-2- and -3-cyanoacetates (INGOLD and THORPE), 150.

$C_{14}H_{14}ON_2$ Methylharmine, and its salts (PERKIN and ROBINSON), 947.

$C_{14}H_{14}O_3N_2$ Nitroso-5:6:7:8-tetrahydro-4:9-dimethyl-ψ-1:8-*iso*naphthoxazone (DEY and GOSWAMI), 540.

$C_{14}H_{15}O_2N$ 5:6:7:8-Tetrahydro-4:9-dimethyl-ψ-1-8-*iso*naphthoxazone (DEY and GOSWAMI), 540.

$C_{14}H_{16}O_3N_4$ 2-Acetylamino-5-*p*-acetylaminophenyl-4-methylglyoxaline, and its hydrochloride (FARGHER and PYMAN), 251.

$C_{14}H_{17}O_3N_3$ ω-Imide of αα′-dicyano-2:4-dimethyl*cyclo*hexane-1:1-diacetic acid (KON and THORPE), 695.

$C_{14}H_{16}ON_2$ Methyltetrahydroharmine, and its salts (PERKIN and ROBINSON) 953.

14 IV

$C_{14}H_8O_4N_2As_2$ 1:2:1′:2′-Tetrahydro-4-arsenobenzodioxazolone (FARGHER), 991.

$C_{14}H_{12}O_2NI$ ψ-1:8-*iso*Naphthoxazone-*N*-ethiodide (DEY and GOSWAMI), 538.

$C_{14}H_{14}O_4N_2S$ Harmine methohydroxide sulphonic anhydride (PERKIN and ROBINSON), 950.

$C_{14}H_{16}O_3N_2As_2$ 4:4′-Dihydroxy-5:5′-diamino-3:3′-dimethylarsenobenzene, hydrochloride of (+ $2H_2O$), (FARGHER), 990.

$C_{14}H_{16}O_4N_2S$ Harmaline methohydroxide sulphonic anhydride (PERKIN and ROBINSON), 953.

C_{15} Group.

$C_{15}H_{16}O$ Cinnamylidenemesityl oxide (GHOSH), 299.

$C_{15}H_{16}O_6$ Anhydro-ester from ethyl dihydrogen *cyclo*hexane*spiro*di*cyclo*pentan-3-one-1:2:4-tricarboxylate (INGOLD and THORPE), 361.

$C_{15}H_{18}O_7$ Ethyl dihydrogen *cyclo*hexane*spiro*di*cyclo*pentan-3-one-1:2:4-tricarboxylate (INGOLD and THORPE), 360.

15 III

$C_{15}H_{10}O_3N_2$ Phenylphthalazonecarboxylic acid (MITTER and SEN), 1148.

$C_{15}H_{11}N_4Br$ 2-Phenyl-4-*p*-bromobenzeneazoglyoxaline (FARGHER and PYMAN), 256.

$C_{15}H_{12}O_4N_2$ Phthalonic acid phenylhydrazone (MITTER and SEN), 1147.

$C_{15}H_{13}O_3N$ ω-Imide of αα′-dicyano-β-benzyl-β-methylglutaric acid (KON and THORPE), 704.

$C_{15}H_{13}N_4Br$ Base, from reduction of 2-phenyl-4-*p*-bromobenzeneazoglyoxaline (FARGHER and PYMAN), 257.

$C_{15}H_{15}O_2N$ Ethyl α-indenyl-2- and -3-α-cyanopropionates (INGOLD and THORPE), 152.

$C_{15}H_{19}O_3N$ *cyclo*Pentane-1:1-diacetic semianilide (KON and THORPE), 701.

$C_{15}H_{20}ON_2$ Dehydro*iso*methyltetrahydroharmine methohydroxide, and its salts (PERKIN and ROBINSON), 957.

$C_{15}H_{22}O_2N_2$ 3:4-Diacetyltolylene-4-*N*-*n*-butylamine (REILLY and HICKINBOTTOM), 177.

$C_{15}H_{23}O_6N$ Ethyl α-cyano-γ-methylbutane-αβδ-tricarboxylate (THORPE), 683.

15 IV

$C_{15}H_{12}O_2NBr$ ψ-1:8-*iso*Naphthoxazone *N*-allyl bromide (DEY and GOSWAMI), 538.

C_{16} Group.

$C_{16}H_{14}N_6$ 2:5-Bisbenzeneazo-4-methylglyoxaline (FARGHER and PYMAN), 250.

$C_{16}H_{18}N_2$ Camphanoquinoxaline, and its optical activity (SINGH and MAZUMDER), 574.

16 III

$C_{16}H_9O_2N$ ψ-Benzo-1:8-*iso*naphthoxazone (DEY and GOSWAMI), 540.

$C_{16}H_9O_7N_5$ Azotrinitro-β-naphthol (MORGAN and EVENS), 1135.

$C_{16}H_{10}O_5N_4$ *p*-Nitrobenzene-1-azo-4-nitro-β-naphthol (MORGAN and EVENS), 1134

$C_{16}H_{10}O_6N_4$ Azodinitro-β-naphthol (MORGAN and EVENS), 1135.

$C_{16}H_{10}N_2Cl_3$ *s*-Trichlorobenzeneazo-β-naphthylamine (NORMAN), 678.

$C_{16}H_{11}O_3N_3$ Benzene-1-azo-4-nitro-β-naphthol (MORGAN and EVENS), 1134.

$C_{16}H_{11}O_5N_3$ 4-Nitro-β-naphthol-1-azoresorcinol (MORGAN and EVENS), 1131.

$C_{16}H_{12}N_3Cl$ *o*-Chlorobenzeneazo-β-naphthylamine (NORMAN), 675.

β-Naphthalenediazoamino-*o*-chlorobenzene (NORMAN), 676.

$C_{16}H_{13}ON_3$ 2-Phenylglyoxaline-4-carboxyanilide (FARGHER and PYMAN), 1018.

$C_{16}H_{14}O_2N_2$ Phenylhydrazone of aldehyde, from hemlock tannin (MANNING and NIERENSTEIN), 668.

$C_{16}H_{14}N_4As_2$ Dimethyl-5:5′-arseno-1:3:1′:3′-benzodiazoles, and their dihydrochlorides (BAXTER and FARGHER), 1377.

$C_{16}H_{15}O_2N_3$ ω-Imide of αα′-dicyano-β-benzyl-β-ethylglutaric acid (KON and THORPE), 704.

$C_{16}H_{17}O_2N$ Ethyl α-indenyl-3-α-cyano-*n*-butyrate (INGOLD and THORPE), 153.

$C_{16}H_{19}O_2N_3$ ω-Imide-αα′-dicyano-2-methyl-5-*iso*propylidene*cyclo*hexane-1:1-diacetic acid (KON and THORPE), 696.

$C_{16}H_{19}O_4N$ Ethyl ω-cyanc-*m*-methylbenzylmalonate (GOUGH and THORPE), 1163.

$C_{16}H_{24}O_2N_2$ *iso*Methyltetrahydroharmine methohydroxide methyl ether (PERKIN and ROBINSON), 955.

16 IV

$C_{16}H_{13}O_8N_2As$ *pp′*-Dioxalylaminodiphenylarsinic acid (FARGHER), 988.

$C_{16}H_{16}O_2NI$ ψ-1:8-*iso*Naphthoxazone *N*-*n*-butyl iodide (DEY and GOSWAMI), 538.

$C_{16}H_{16}O_2N_2Se_2$ Di-*m*-acetylaminophenyl diselenide (PYMAN), 172.

$C_{16}H_{18}ONCl$ Chlorophenyliminocamphors, and their optical activity (SINGH and MAZUMDER), 572.

$C_{16}H_{18}ONBr$ Bromophenyliminocamphors, and their optical activity (SINGH and MAZUMDER), 570.

$C_{16}H_{20}ONCl$ *o*- and *m*-Chlorophenyl aminocamphor (FORSTER and SPINNER), 892.

C_{17} Group.

$C_{17}H_{15}N_3$ Benzeneazo-β-naphthylmethylamine (MORGAN and EVANS), 1142.

$C_{17}H_{16}N_4$ 2-Amino-5-*p*-benzylideneaminophenyl-4-methylglyoxaline, and its acetate (FARGHER and PYMAN), 252.

$C_{17}H_{22}O_7$ Diethyl hydrogen *cyclo*hexane*spiro*di*cyclo*pentan-3-one-1:2:4-tricarboxylate, and its potassium salt (INGOLD and THORPE), 360.

17 III

$C_{17}H_{11}O_2N$ 4-Methyl-ψ-benzo-1:8-*iso*naphthoxazone (DEY and GOSWAMI), 540.

$C_{17}H_{12}O_6N_4$ 2:4-Dinitrophenylnitro-β-naphthylmethylamine (MORGAN and EVANS), 1145.

$C_{17}H_{13}O_4N_3$ 2:4-Dinitrophenyl-β-naphthylmethylamine (MORGAN and EVANS), 1144.

$C_{17}H_{14}O_2N_4$ *p*-Nitrobenzene-1-azo-β-naphthylmethylamine (MORGAN and EVANS), 1143.

Nitrotolueneazo-β-naphthylamines (NORMAN), 678.

$C_{17}H_{14}N_3Br$ Bromo-*o*- and -*p*-tolueneazo-β-naphthylamines (NORMAN), 676.

β-Naphthalenediazoaminobromotoluenes (NORMAN), 676.

$C_{17}H_{17}O_2N$ Ethyl α-indenyl-3-α-cyanoallylacetate (INGOLD and THORPE), 155.

$C_{17}H_{17}O_3N_3$ ω-Imide of αα′dicyano-β-methyl-β-(α-b nzylethyl) glutaric acid (KON and THORPE), 703.

$C_{17}H_{17}O_5N$ Glycol *o*-xylyl ether *p*-nitrobenzoate (BOYD and THOMAS), 1243.

$C_{17}H_{19}O_2N$ Ethyl α-indenyl-3-α-cyano-*n*- and -*iso*-valerates (INGOLD and THORPE), 154.

$C_{17}H_{19}O_3N$ *m*- and *p*-Carboxyphenyliminocamphor (FORSTER and SPINNER), 892.

$C_{17}H_{21}ON$ Tolyliminocamphors, and their optical activity (SINGH and MAZUMDER), 568.

$C_{17}H_{21}O_2N$ *o*-Methoxyphenyliminocamphor, and its optical activity (SINGH and MAZUMDER), 575.

$C_{17}H_{21}O_3N$ *m*- and *p*-Carboxyphenylaminocamphor (FORSTER and SPINNER), 893.

$C_{17}H_{21}O_4N$ Hyoscine, stereochemistry of, and its salts (KING), 476, 974.

$C_{17}H_{26}O_2N_2$ *iso*Methyltetrahydroharmine methohydroxide ethyl ether (PERKIN and ROBINSON), 956.

17 IV

$C_{17}H_{13}O_6N_3S$ Toluene-*p*-sulphon-2:4-*di*nitro-α-naphthylamide (MORGAN and EVENS), 1130.

$C_{17}H_{15}O_3NI$ ψ-1:8-*iso*Naphthoxazone *N*-amyl iodide (DEY and GOSWAMI), 538.

C_{18} Group.

$C_{18}H_{17}N$ Benzyl-β-naphthylmethylamine (MORGAN and EVANS), 1144.

$C_{18}H_{17}N_3$ 2-β-Naphthalenediazoamino-*p*-xylene (NORMAN), 677.

m- and *p*-Xyleneazo-β-naphthylamines (NORMAN), 674.

$C_{18}H_{34}O_6$ *n*-Heptyl tartrate, and its rotation dispersion (FRANKLAND and GARNER), 655.

18 III

$C_{18}H_{15}ON$ Benzo-β-naphthylmethylamide (MORGAN and EVANS), 1144.

$C_{18}H_{18}N_4As_2$ 2:7:2′:7′-Tetramethyl-5:5′-arseno-1:3:1′:3′-benzodiazole, and its dihydrochloride (BAXTER and FARGHER), 1379.

$C_{18}H_{19}O_4N$ Anil from *cis*-3-hydroxy-4-*cyclo*hexyl*cyclo*butan-2-one-3:4-dicarboxylic acid (INGOLD and THORPE), 367.

$C_{18}H_{21}O_2N$ Ethyl α-indenyl-3-α-cyano*iso*hexoate (INGOLD and THORPE), 156.

$C_{18}H_{21}O_5N$ Anilic acid from *cis*-3-hydroxy-4-*cyclo*hexyl*cyclo*butan-2-one-3:4-dicarboxylic acid (INGOLD and THORPE), 366.

$C_{18}H_{22}O_2N_2$ *p*-Acetylaminophenyliminocamphor (FORSTER and SPINNER), 893.

$C_{18}H_{23}O_3N$ 2:4-Dimethyl*cyclo*hexane-1:1-diacetic semianilide (KON and THORPE), 696.

$C_{18}H_{27}O_3N$ Capsaicin (LAPWORTH and ROYLE) 1109.

18 IV

$C_{18}H_{12}ON_3Cl_3$ Acetyl derivative of *s*-trichlorobenzeneazo-β-naphthylamine (NORMAN), 678.

$C_{18}H_{14}ON_3Cl$ Acetyl derivative of *o*-chlorobenzeneazo-β-naphthylamine (NORMAN), 675.

C_{19} Group.

$C_{19}H_{20}O_6$ Dihydrocryptopidenic acid (PERKIN), 764.

$C_{19}H_{26}O_7$ Ethyl *cyclo*hexane*spiro*di*cyclo*pentan-3-one-1:2:4-tricarboxylate, and its sodium salt (INGOLD and THORPE), 358.

19 III

$C_{19}H_{11}O_5N$ Resorcinolquinolinein, and its silver salt (GHOSH), 1103.
$C_{19}H_{11}O_7N$ Phloroglucinolquinolinein (GHOSH), 1104.
$C_{19}H_{14}O_2N_4$ *m*-Phenylenediaminequinolinein (GHOSH), 1104.
$C_{19}H_{14}O_4N_4$ 2:4-Diaminophenolquinolinein (GHOSH), 1105.
$C_{19}H_{15}O_3N$ Benzoyl derivative of 5:6:7:8-tetrahydro-ψ-1:8-*iso*naphthoxazone (DEY and GOSWAMI), 539.
$C_{19}H_{16}O_3N_4$ Acetyl derivatives of nitrotolueneazo-β-naphthylamines (NORMAN), 678.
$C_{19}H_{19}O_3N_3$ *p*-Nitrobenzeneazotetrahydroharmine (PERKIN and ROBINSON), 963.
$C_{19}H_{23}O_2N$ Ethyl α-indenyl-3-α-cyano*iso*heptoate (INGOLD and THORPE), 156.
$C_{19}H_{23}O_4N$ Porphyroxine, and its salts (RAKSHIT), 455.
$C_{19}H_{29}O_3N$ Methylcapsaicin (LAPWORTH and ROYLE), 1113.

19 IV

$C_{19}H_{14}O_2NCl$ ψ-1:8-*iso*Naphthoxazone *N*-benzyl chloride (DEY and GOSWAMI), 538.
$C_{19}H_{16}ON_3Br$ Acetyl derivatives of bromotolueneazo-β-naphthylamines (NORMAN), 676.
$C_{19}H_{20}O_4N_4S$ Benzeneazotetrahydroharminesulphonic acid (PERKIN and ROBINSON), 964.

C_{20} Group.

$C_{20}H_{18}O_6$ Dioxy-ψ-cryptopidene (PERKIN), 773.
$C_{20}H_{18}O_7$ Trioxy-ψ-cryptopidene (PERKIN), 773.
$C_{20}H_{20}O_4$ *iso*-ψ-Berberidene (PERKIN), 778.
Cryptopidenes (PERKIN), 744, 772, 776, 786.
$C_{20}H_{20}O_5$ Hydroxycryptopidene (PERKIN), 742.
Ketodihydrocryptopidenes (PERKIN), 763, 777.
$C_{20}H_{20}O_8$ Ketohydroxydihydro*iso*cryptopidenic acid (PERKIN), 790.
$C_{20}H_{22}O_4$ Dihydrocryptopidene (PERKIN), 762.
$C_{20}H_{22}O_5$ Dihydro-α-*iso*cryptopidol (PERKIN), 758.
$C_{20}H_{24}O_4$ Tetrahydrocryptopidene (PERKIN), 744.
$C_{20}H_{28}O_7$ Ethyl *cyclo*hexane*spiro*-2-methyldi*cyclo*pentan-3-one-1:2:4-tricarboxylate (INGOLD and THORPE), 368.
$C_{20}H_{38}O_{11}$ Heptamethylmethylmaltoside (HAWORTH and LEITCH), 814.

20 III

$C_{20}H_{19}ON_3$ Acetyl derivatives of xyleneazo-β-naphthylamines (NORMAN), 674.
$C_{20}H_{21}ON$ α- and β-Naphthyliminocamphors, and their optical activity (SINGH and MAZUMDER), 573.
$C_{20}H_{23}ON$ α- and β-Naphthylaminocamphor (FORSTER and SPINNER), 891.

20 IV

$C_{20}H_{14}O_3NBr$ ψ-1:8-*iso*Naphthoxazone *N*-phenylacetyl bromide (DEY and GOSWAMI), 538.
$C_{20}H_{22}O_4N_4S$ Benzeneazomethyltetrahydroharminesulphonic acid (PERKIN and ROBINSON), 965.

C_{21} Group.

$C_{21}H_{16}O_2$ *p*-Hydroxybenzylidenedeoxybenzoin (SINGH and MAZUMDER) 824.
Salicylidenedeoxybenzoin (SINGH and MAZUMDER), 822.

$C_{21}H_{16}N_8$ 2:4:5-Trisbenzeneazoglyoxaline (FARGHER and PYMAN), 237.
$C_{21}H_{20}O_6$ Curcumin (GHOSH), 292.
$C_{21}H_{32}O_8$ Ethyl *cyclo*hexane*spiro*-1-methyl*cyclo*propane-1:1′:1′:2-tetracarboxylate (INGOLD and THORPE), 357.

21 III

$C_{21}H_{15}ON$ 4-Hydroxy-2:3-diphenylquinoline (SINGH and MAZUMDER), 823.
$C_{21}H_{13}OCl$ 2:3-Diphenylbenzopyronium chloride (DAS and GHOSH), 819; (SINGH and MAZUMDER), 822.
$C_{21}H_{19}O_6Br$ Bromocurcumin (GHOSH), 295.
$C_{21}H_{21}O_3N_3$ *m*-Dimethylaminophenolquinolinein (GHOSH), 1105.
$C_{21}H_{21}O_4N$ Anhydrocryptopines, and their salts (PERKIN), 736, 780.
$C_{21}H_{21}O_7N_3$ Disemicarbazone of trioxy-ψ-cryptopidene (PERKIN), 773.
$C_{21}H_{23}O_4N$ ψ-Anhydrodihydrocryptopine, and its salts (PERKIN), 769.
Dihydroanhydro*iso*cryptopines and their salts (PERKIN), 748, 781.
$C_{21}H_{23}O_5N$ Cryptopine (PERKIN), 713.
$C_{21}H_{23}O_5N_3$ Semicarbazones of ketodihydrocryptopidenes (PERKIN), 764, 777.
$C_{21}H_{25}O_4N$ Dihydroanhydro-ψ-cryptopine, and its picrate (PERKIN), 775.
Dihydroanhydrodihydrocryptopine, and its salts (PERKIN), 754.
Dihydroanhydro-ψ-methylberberine, and its salts (PERKIN), 779.
Tetrahydroanhydro*iso*cryptopine, and its salts (PERKIN), 751.

21 IV

$C_{21}H_{15}O_3N_2As$ 4-Methylphenanthraphenazine-2-arsinic acid (BAXTER and FARGHER), 1378.
$C_{21}H_{19}O_3N_4Br$ Triacetyl derivative of base, $C_{15}H_{13}N_4Br$ (FARGHER and PYMAN), 258.
$C_{21}H_{22}O_4NCl$ ψ-Cryptopine chloride (PERKIN), 766.
$C_{21}H_{22}O_4NBr$ ψ-Cryptopine bromide (PERKIN), 767.
$C_{21}H_{24}O_4NI$ ψ-Cryptopine iodide (PERKIN), 768.
$C_{21}H_{23}O_8NS$ ψ-Cryptopine hydrogen sulphate (PERKIN), 768.

C_{22} Group.

$C_{22}H_{18}O_3$ Vanillylidenedeoxybenzoin (SINGH and MAZUMDER), 824.
$C_{22}H_{22}O_5$ Divanillylidenemesityl oxide (GHOSH), 299.

22 III

$C_{22}H_{23}O_3N$ *p*-Benzeneazophenyliminocamphor, and its optical activity, (SINGH and MAZUMDER), 574.
$C_{22}H_{25}ON_3$ *p*-Benzeneazophenylaminocamphor (FORSTER and SPINNER), 894.
$C_{22}H_{25}O_4N$ Dihydroanhydromethylcryptopine, and its salts (PERKIN), 740.
n- and ψ-Dihydromethyl*iso*anhydrocryptopines, and their salts (PERKIN), 782.
$C_{22}H_{25}O_6N$ Dioxymethyl*iso*anhydrodihydrocryptopine (PERKIN), 739.
$C_{22}H_{27}O_4N$ Anhydrotetrahydromethylcryptopine (PERKIN), 752.
Dihydro*iso*anhydrodihydromethylcryptopine (PERKIN), 757.
Tetrahydromethyl*iso*anhydrocryptopine (PERKIN), 788.
Tetrahydroanhydromethylcryptopine, and its platinichloride (PERKIN), 744.
$C_{22}H_{27}O_5N$ Dihydromethylcryptopine (PERKIN), 746.

$C_{22}H_{29}O_4N$ Dihydroanhydrotetrahydromethylcryptopine, and its salts (PERKIN), 760.

C_{23} Group.

$C_{23}H_{18}O$ Cinnamylidenedeoxybenzoin, and its hydrochloride (SINGH and MAZUMDER), 825.

$C_{23}H_{28}O_{15}$ Dryophantin (NIERENSTEIN), 1330.

23 III

$C_{23}H_{16}N_4S_6$ Substance, from benzylidene chloride and the potassium salt of 2-thiol-5-thio-4-phenyl-4:5-dihydro-1:3:4-thiodiazole (RÂY, GUHA, and DAS), 1311.

$C_{23}H_{19}O_2N$ Ethyl 2:3′-di-indenyl-3-cyanoacetate (INGOLD and THORPE), 151.

$C_{23}H_{21}ON$ *p*-Dimethylaminobenzylidenedeoxybenzoin (SINGH and MAZUMDER), 825.

$C_{23}H_{22}O_6Br_6$ Dibromodimethylcurcumin tetrabromide (GHOSH), 296.

$C_{23}H_{22}O_6Br$ Bromodimethylcurcumin (GHOSH), 296.

23 IV

$C_{23}H_{16}ON_3Cl$ Benzoyl derivative of *o*-chlorobenzeneazo-β-naphthylamine (NORMAN), 675.

C_{24} Group.

$C_{24}H_{40}N_2$ Conessine, and its hydrogen oxalate (PYMAN), 164.

24 III

$C_{24}H_{18}O_3N_4$ Benzoyl derivatives of nitrotolueneazo-β-naphthylamine (NORMAN), 678.

$C_{24}H_{38}ON_2$ Holarrhenine, and its hydrobromide (PYMAN), 165.

24 IV

$C_{24}H_{18}ON_3Br$ Benzoyl derivatives of bromotolueneazo-β-naphthylamine (NORMAN), 676.

$C_{24}H_{24}O_4N_4As_2$ 3:3′:3″:3‴-Tetra-amino-4:4′:4″:4‴-tetrahydroxytetraphenyldiarsine, tetrahydrochloride of (FARGHER), 987.

C_{25} Group.

$C_{25}H_{16}N_6S_9$ Substance, from bromoform or iodoform and the potassium salt of 2-thiol-5-thio-4-phenyl-4:5-dihydro-1:3:4-thiodiazole (RÂY, GUHA, and DAS), 1309.

$C_{25}H_{17}OCl$ 2:3-Diphenylnaphthapyronium chloride (SINGH and MAZUMDER), 823.

$C_{25}H_{21}ON_3$ Benzoyl derivatives of xyleneazo-β-naphthylamines (NORMAN), 674.

$C_{25}H_{22}O_6Br_6$ Dibromodiacetylcurcumin tetrabromide (GHOSH), 296.

$C_{25}H_{23}O_6Br$ Bromodiacetylcurcumin (GHOSH), 296.

$C_{25}H_{25}O_5N$ Dihydrocryptopidenic anilide (PERKIN), 764.

25 IV

$C_{25}H_{15}O_2N_7S_9$ Substance, from chloropicrin and the potassium salt of 2-thiol-5-thio-4-phenyl-4:5-dihydro-1:3:4-thiodiazole (RÂY, GUHA, and DAS), 1311.

C_{26} Group.

$C_{26}H_{32}O_2N_2$ *m*-Phenylenebisiminocamphor, and its optical activity (SINGH and MAZUMDER), 575.

$C_{26}H_{40}O_2N_2$ Acetylholarrhenine (PYMAN), 165.

C_{27} Group.

$C_{27}H_{28}O_{10}$ Dicarbethoxy*iso*curcumin (GHOSH), 297.

27 III

$C_{27}H_{26}O_{10}Br_6$ Dibromodicarbethoxycurcumin tetrabromide (GHOSH), 296.

$C_{27}H_{27}O_{10}Br$ Bromodicarbethoxycurcumin (GHOSH), 295.

$C_{27}H_{27}O_{10}Br_5$ Bromodicarbethoxycurcumin tetrabromide (GHOSH), 295.

C_{28} Group.

$C_{28}H_{24}O_6$ Benzylidenecurcumin (GHOSH), 294.

C_{29} Group.

$C_{29}H_{28}O_6N_2$ Substance, from curcumin and nitrosodimethylaniline (GHOSH), 294.

C_{30} Group.

$C_{30}H_{18}O_2N_6S_9$ Substance, from tribromoresorcinol and the potassium salt of 2-thiol-5-thio-4-phenyl-4:5-dihydro-1:3:4-thiodiazole (RÂY, GUHA, and DAS), 1311.

C_{32} Group.

$C_{32}H_{36}O_2N_2$ *pp*-Diphenylenebisiminocamphor (FORSTER and SPINNER), 893.

C_{36} Group.

$C_{36}H_{28}O_4$ 3:4-Methylenedioxybenzamarone (DAS and GHOSH), 820.

$C_{36}H_{30}O_2$ *p*-Methylbenzamarone ($+\frac{1}{2}H_2O$), (DAS and GHOSH), 820.

ERRATA.

VOL. CXV (TRANS., 1919).

Page	Line	
814	7*	*for* "$a_D^{\cdot}$" *read* "$[a]_D$."
816	9	*for* "a_D" *read* "$[a]_D$."
816	1	*for* "0·1060 H_2O" *read* "0·1006 H_2O."

Contents, p. i, line 14, p. 821, in title and headlines pp. 821–825 *for* "MAZUMDAR" *read* "MAZUMDER."

Contents, p. i, line 5, p. 1140, in title and headlines pp. 1140–1144 *for* "FREDERICK PAGE EVENS" *read* "FREDERICK PAGE EVANS."

* From bottom.